

Preterm birth after antenatal inflammation as underlying cause of bronchial hyperreactivity

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Stellingen

behorende bij het proefschrift:

Preterm birth after antenatal inflammation as underlying cause of bronchial hyperreactivity

1. De immuunrespons in de longen is afhankelijk van de intensiteit en continuïteit van de blootstelling aan antenatale inflammatie. *(dit proefschrift)*
2. ‘Gender issues – or – Sex does matter’. Het longgasvolume, en daarmee ook de longgrijping, is bij meisjes groter dan bij jongetjes na blootstelling aan antenatale inflammatie en is een voordeel in de overleving na vroeggeboorte. *(dit proefschrift)*
3. ‘Percision-cut lung slices’ van schapen is een bruikbare techniek voor onderzoek van de cholinerge luchtwegreactiviteit. De opmerkelijke verschillen tussen pasgeborenen en volwassen schapen demonstreren het belang van leeftijd in deze studies. *(dit proefschrift)*
4. Antenatale inflammatie activeert het immuun systeem in de longen rond de geboorte, waarna postnatale structurele en functionele veranderingen worden gezien. *(dit proefschrift)*
5. Foetale blootstelling aan antenatale inflammatie geeft een mogelijk verband tussen activatie van het immuunsysteem en een gestoorde longontwikkeling prenataal, met als gevolg een veranderde luchtwegreactiviteit postnataal. *(dit proefschrift)*
6. Ik zal de geneeskundige kennis van mijzelf en anderen bevorderen. Ik erken de grenzen van mijn mogelijkheden. Ik zal mij open en toetsbaar opstellen. *(een deel van de Nederlandse artseneed afgeleid uit de eed van Hippocrates)*
7. Niet in problemen denken maar in oplossingen. *(lijfspreuk van mijn moeder)*
8. Indien tegenslag je sterker maakt, hoef je als promovendus nooit aan krachttraining te doen.
9. ‘t Is een kwestie van geduld... *(Rowwen Hèze)*
10. ‘Wie twee hazen jaagt, vangt er geen enkele’ *(spreekwoord)*. Mij is het gelukt om ze allebei te vangen: vandaag de verdediging van mijn proefschrift en morgen mijn diploma-uitreiking van geneeskunde.

Verena A.C. Lambermont

Maastricht, dinsdag 9 december 2014

Statements

accompanying the PhD thesis:

Preterm birth after antenatal inflammation as underlying cause of bronchial hyperreactivity

1. The pulmonary immune response may be dependent on the intensity and/or persistence of antenatal inflammation. *(this thesis)*
2. 'Gender issues – or – Sex does matter'. Girls have increased lung gas volumes, and therefore enhanced lung maturation, after exposure to antenatal inflammation compared to boys which is a female advantage in survival after preterm birth. *(this thesis)*
3. 'Precision-cut lung slices' from sheep represent a useful tool to study mechanisms of cholinergic airway contraction. The notable differences between newborn and adult sheep demonstrate the importance of age in such studies. *(this thesis)*
4. Antenatal inflammation activates the immune system in the lungs near term, resulting in decreased airway reactivity and structural changes postnatal. *(this thesis)*
5. Fetal exposure to antenatal inflammation provides a potential link between activation of the prenatal immune status and impaired lung development, resulting in altered airway reactivity postnatal. *(this thesis)*
6. I will promote the medical knowledge of myself and others. I recognize the limits of my capabilities. I will act in an open and assessable manner. *(Part of the Hippocratic Oath, Dutch version)*
7. Do not think in problems but in solutions. *(motto of my mother)*
8. If adversity makes you stronger, you never have to do strength training as a PhD student.
9. A matter of patience... *(Rowwen Hèze)*
10. 'If you run after two hares, you will catch neither' *(proverbial phrase)*. However, I caught them both: today defending my PhD and tomorrow receiving my degree in medicine.

Verena A.C. Lambermont

Maastricht, dinsdag 9 december 2014